Title (en)

SELF INTERFERENCE NOISE CANCELLATION TO SUPPORT MULTIPLE FREQUENCY BANDS

Title (de)

SELBSTINTERFERENZ-RAUSCHUNTERDRÜCKUNG ZUR UNTERSTÜTZUNG MEHRERER FREQUENZBÄNDER

Title (fr)

ANNULATION DE BRUIT D'AUTO-BROUILLAGE POUR PRENDRE EN CHARGE DE MULTIPLES BANDES DE FRÉQUENCE

Publication

EP 3750248 A4 20211110 (EN)

Application

EP 19751566 A 20190124

Priority

- US 201815890275 A 20180206
- US 2019014897 W 20190124

Abstract (en)

[origin: US2019245565A1] Examples described herein include systems and methods which include wireless devices and systems with examples of full duplex compensation with a self-interference noise calculator that compensates for the self-interference noise generated by power amplifiers at harmonic frequencies of a respective wireless receiver. The self-interference noise calculator may be coupled to antennas of a wireless device and configured to generate the adjusted signals that compensate self-interference. The self-interference noise calculator may include a network of processing elements configured to combine transmission signals into sets of intermediate results. Each set of intermediate results may be summed in the self-interference noise calculator to generate a corresponding adjusted signal. The adjusted signal is receivable by a corresponding wireless receiver to compensate for the self-interference noise generated by a wireless transmitter transmitting on the same or different frequency band as the wireless receiver is receiving.

IPC 8 full level

H04B 1/12 (2006.01); **H04B 1/00** (2006.01); **H04B 1/10** (2006.01); **H04B 7/0413** (2017.01); **H04B 7/08** (2006.01)

CPC (source: CN EP KR US)

H04B 1/0064 (2013.01 - CN KR); **H04B 1/0475** (2013.01 - CN EP US); **H04B 1/1027** (2013.01 - CN KR); **H04B 1/126** (2013.01 - CN KR); **H04B 1/525** (2013.01 - CN EP US); **H04B 7/0413** (2013.01 - CN KR); **H04B 7/0842** (2013.01 - CN KR); **H04L 5/14** (2013.01 - CN US)

Citation (search report)

[I] WO 2016154219 A1 20160929 - INTERDIGITAL PATENT HOLDINGS INC [US]

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 11206050 B2 20211221; **US 2019245565 A1 20190808**; CN 111684728 A 20200918; CN 111684728 B 20221025; CN 115622577 A 20230117; EP 3750248 A1 20201216; EP 3750248 A4 20211110; KR 102411410 B1 20220622; KR 20200108360 A 20200917; US 11552658 B2 20230110; US 11973525 B2 20240430; US 2019245566 A1 20190808; US 2023113877 A1 20230413; WO 2019156820 A1 20190815

DOCDB simple family (application)

US 201815890275 A 20180206; CN 201980011797 A 20190124; CN 202211234284 A 20190124; EP 19751566 A 20190124; KR 20207025370 A 20190124; US 201816113995 A 20180827; US 2019014897 W 20190124; US 202218065062 A 20221213